

## EAST Search History

| Ref # | Hits | Search Query  | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|------|---|---|------------------|---------|------------------|
| L1    | 0    | ((spray with nozzle) and (flat with discharge with surface) and (orifice with discharge with surface) and (impingement with surface) and (impingement with angle) and (deflection with ridge) and (fluid with fitting) and (filleted with corner) and (sharp with corner)).<br>clm. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/05/01 12:02 |
| L2    | 191  | (239/592).CCLS.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR               | OFF     | 2006/05/01 12:02 |
| L3    | 23   | (239/595).CCLS.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR               | OFF     | 2006/05/01 12:19 |
| L4    | 36   | (239/501).CCLS.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR               | OFF     | 2006/05/01 12:03 |
| L5    | 379  | (239/524).CCLS.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR               | OFF     | 2006/05/01 12:18 |
| L6    | 31   | (239/509).CCLS.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR               | OFF     | 2006/05/01 12:09 |
| L7    | 250  | (239/505).CCLS.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR               | OFF     | 2006/05/01 12:18 |
| L8    | 31   | (239/509).CCLS.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR               | OFF     | 2006/05/01 12:18 |

## EAST Search History

|     |     |                   |   |    |     |                  |
|-----|-----|-------------------|---|----|-----|------------------|
| L9  | 185 | (239/513).CCLS.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/01 12:17 |
| L10 | 97  | (239/512).CCLS.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/01 12:16 |
| L11 | 117 | (239/522).CCLS.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/01 12:15 |
| L12 | 210 | (239/523).CCLS.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/01 12:14 |
| L13 | 379 | (239/524).CCLS.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/01 12:18 |
| L14 | 515 | (239/dig.1).CCLS. | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/01 12:19 |
| S1  | 179 | (239/592).CCLS.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/01 12:02 |
| S2  | 20  | (239/595).CCLS.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/01 12:03 |
| S3  | 34  | (239/501).CCLS.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/01 12:03 |
| S9  | 371 | (239/524).CCLS.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/01 12:07 |

## EAST Search History

|     |     |  |   |    |     |                  |
|-----|-----|--|---|----|-----|------------------|
| S10 | 4   | ("2539061"   "2709623").PN.                            | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | OFF | 2004/10/19 16:34 |
| S11 | 14  | ("4624414").URPN.                                      | USPAT   | OR | OFF | 2004/10/19 16:34 |
| S12 | 206 | (239/523).CCLS.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/01 12:14 |
| S13 | 7   | ("3085754").URPN.                                      | USPAT   | OR | OFF | 2004/10/20 08:40 |
| S14 | 9   | ("2864652").URPN.                                      | USPAT   | OR | OFF | 2004/10/20 08:42 |
| S15 | 5   | ("1764570").URPN.                                      | USPAT   | OR | OFF | 2004/10/20 08:48 |
| S16 | 7   | ("1764570"   "2388093"   "3179341"<br>  "3596835").PN. | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | OFF | 2004/10/20 08:49 |
| S17 | 11  | ("4221334").URPN.                                      | USPAT   | OR | OFF | 2004/10/20 08:49 |
| S18 | 6   | ("2027567"   "2711925"   "4141504"<br>  "4221334").PN. | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | OFF | 2004/10/20 08:50 |
| S19 | 11  | ("4221334").URPN.                                      | USPAT   | OR | OFF | 2004/10/20 08:52 |
| S20 | 96  | (239/512).CCLS.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/01 12:10 |
| S21 | 30  | (239/509).CCLS.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/01 12:10 |
| S22 | 144 | (239/506).CCLS.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2004/10/20 08:59 |
| S23 | 246 | (239/505).CCLS.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/01 12:09 |
| S24 | 1   | ("RE24353").URPN.                                      | USPAT   | OR | OFF | 2004/10/20 09:06 |
| S25 | 10  | ("1639162").URPN.                                      | USPAT   | OR | OFF | 2004/10/20 09:10 |
| S26 | 112 | (239/522).CCLS.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/01 12:10 |

## EAST Search History

|     |     |   |   |    |     |                  |
|-----|-----|---|---|----|-----|------------------|
| S27 | 2   | ("2338273").URPN.   | USPAT   | OR | OFF | 2004/10/20 09:16 |
| S28 | 179 | (239/513).CCLS.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/01 12:10 |
| S29 | 458 | nguyen-din\$-q.xa,xp.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/06/22 08:04 |
| S30 | 6   | ("4944459"   "6234405"   "6391392"<br>  "6439480"   "6458424"  <br>"6533861").PN.             | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON  | 2005/06/22 08:09 |
| S31 | 0   | ganey-ste\$-.xa,xp.   | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON  | 2005/06/22 08:10 |
| S32 | 641 | ganey-ste\$.xa,xp.  | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON  | 2005/06/22 08:10 |
| S33 | 2   | ("5076497").PN.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/01/17 08:29 |
| S34 | 2   | ("RE24353").URPN.   | USPAT   | OR | ON  | 2006/01/17 08:30 |
| S35 | 12  | ("0691758"   "1177884"   "1805782"<br>  "3034728"   "3488006"  <br>"3779431"   "3785572").PN. | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON  | 2006/01/17 08:49 |
| S36 | 8   | ("2864652"   "3073533"   "3082961"<br>  "3322352").PN.  | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON  | 2006/01/17 11:26 |
| S37 | 9   | ("2864652").URPN.   | USPAT   | OR | ON  | 2006/01/17 11:26 |
| S38 | 2   | ("5076497").PN.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/01/18 08:06 |